#2

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        RAW SEQUENCE LISTING              DATE: 01/15/2002
        PATENT APPLICATION:  US/10/017,724    TIME: 18:08:11

        Input Set : A:\Seqlist.txt
        Output Set: N:\CRF3\01152002\J017724.raw      p.5
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       5 <120> TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF VASCULAR DISEASE
       7 <130> FILE REFERENCE: MMI-004
C-->   9 <140> CURRENT APPLICATION NUMBER: US/10/017,724
C-->   9 <141> CURRENT FILING DATE: 2001-12-14
       9 <150> PRIOR APPLICATION NUMBER: US 60/317,178
      10 <151> PRIOR FILING DATE: 2001-09-05
      12 <150> PRIOR APPLICATION NUMBER: US 60/329,958
      13 <151> PRIOR FILING DATE: 2001-10-16
      15 <160> NUMBER OF SEQ ID NOS: 11
      17 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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      20 <211> LENGTH: 5784
      21 <212> TYPE: DNA
      22 <213> ORGANISM: Homo Sapiens
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      27 ctgcagggcc ggtctctcgc tccagcagag cctgcgcctt tctgactcgg tccggaacac 180
      28 tgaaaccagt catcactgca tcttttggc aaaccaggag ctcagctgca ggaggcagga 240
      29 tggtctggag gctggtcctg ctggctctgt gggtgtggcc cagcacgcaa gctggtcacc 300
      30 aggacaaaga cacgaccttc gaccttttca gtatcagcaa catcaaccgc aagaccattg 360
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      32 actacatccc accggtgaac gcagatgacc tcagcaagat caccaagatc atgcggcaga 480
      33 aggagggctt cttcctcacg gcccagctca agcaggacgg caagtccagg ggcacgctgt 540
      34 tggctctgga gggcccccggt ctctcccaga ggcagttcga gatcgtctcc aacggccccg 600
      35 cggacacgct ggatctcacc tactggattg acggcacccg gcatgtggtc tccctggagg 660
      36 acgtcggcct ggctgactcg cagtggaaga cgtcaccgt gcaggtggct ggcgagacct 720
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      39 acttcagggg tttgcttcag aacgtccacc tagtgtttga aaactctgtg gaagatattc 900
      40 taagcaagaa gggttgccag caaggccagg gagctgagat caacgccatc agtgagaaca 960
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      53 gggagaccaa agcctgccag ggcgccccat gcccaatcga tggccgctgg agccctggt 1740
      54 ccccgtggtc ggcctgcact gtcacctgtg ccggtgggat ccgggagcgc acccgggtct 1800
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RAW SEQUENCE LISTING   DATE: 01/15/2002
PATENT APPLICATION: US/10/017,724   TIME: 18:08:11

Input Set : **A:\Seqlist.txt**
Output Set: **N:\CRF3\01152002\J017724.raw**

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 58 tcttgggcaa tggcacccac tgtgaggacc tggacgagtg tgccctggtc cccgacatct 2040
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 65 cccatctgcc aaattctggg caggaagact ttgacaagga cgggattggc gatgcctgtg 2460
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 67 atccccgcca ggctgactat gacaaggatg aggttgggga ccgctgtgac aactgccctt 2580
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 73 acgccaacca ggctgaccat gacagagacg gccagggcga cgcctgtgac cctgatgatg 2940
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 89 ctctctctag cagcacctcc tgtcccttga ccttaactct gatggttctt cacctcctgc 3900
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 92 tgggcatgcc attacattgc tttttcttgt ttgtttaaaa agaatgacgt ttacatataa 4080
 93 aatgtaatta cttattgtat ttatgtgtat atggagttga agggaatact gtgcataagc 4140
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124 <211> LENGTH: 1172
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126 <213> ORGANISM: Homo Sapiens
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132             20                  25                  30
133 Ser Asn Ile Asn Arg Lys Thr Ile Gly Ala Lys Gln Phe Arg Gly Pro
134         35                  40                  45
135 Asp Pro Gly Val Pro Ala Tyr Arg Phe Val Arg Phe Asp Tyr Ile Pro
136     50                  55                  60
137 Pro Val Asn Ala Asp Asp Leu Ser Lys Ile Thr Lys Ile Met Arg Gln
138 65                  70                  75                  80
139 Lys Glu Gly Phe Phe Leu Thr Ala Gln Leu Lys Gln Asp Gly Lys Ser
140             85                  90                  95
141 Arg Gly Thr Leu Leu Ala Leu Glu Gly Pro Gly Leu Ser Gln Arg Gln
142             100                 105                 110
143 Phe Glu Ile Val Ser Asn Gly Pro Ala Asp Thr Leu Asp Leu Thr Tyr
144         115                 120                 125
145 Trp Ile Asp Gly Thr Arg His Val Val Ser Leu Glu Asp Val Gly Leu
146     130                 135                 140
147 Ala Asp Ser Gln Trp Lys Asn Val Thr Val Gln Val Ala Gly Glu Thr
148 145                 150                 155                 160
149 Tyr Ser Leu His Val Gly Cys Asp Leu Ile Gly Pro Val Ala Leu Asp
150             165                 170                 175
151 Glu Pro Phe Tyr Glu His Leu Gln Ala Glu Lys Ser Arg Met Tyr Val
152             180                 185                 190
153 Ala Lys Gly Ser Ala Arg Glu Ser His Phe Arg Gly Leu Leu Gln Asn
154         195                 200                 205
155 Val His Leu Val Phe Glu Asn Ser Val Glu Asp Ile Leu Ser Lys Lys
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RAW SEQUENCE LISTING   DATE: 01/15/2002
PATENT APPLICATION: US/10/017,724   TIME: 18:08:11

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\01152002\J017724.raw

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160                   245                   250                   255
161 Pro Ser Ser Glu Arg Arg Pro Glu Val Cys Glu Arg Ser Cys Glu Glu
162                   260                   265                   270
163 Leu Gly Asn Met Val Gln Glu Leu Ser Gly Leu His Val Leu Val Asn
164                   275                   280                   285
165 Gln Leu Ser Glu Asn Leu Lys Arg Val Ser Asn Asp Asn Gln Phe Leu
166      290                   295                   300
167 Trp Glu Leu Ile Gly Gly Pro Pro Lys Thr Arg Asn Met Ser Ala Cys
168 305                   310                   315                   320
169 Trp Gln Asp Gly Arg Phe Phe Ala Glu Asn Glu Thr Trp Val Val Asp
170                   325                   330                   335
171 Ser Cys Thr Thr Cys Thr Cys Lys Lys Phe Lys Thr Ile Cys His Gln
172                   340                   345                   350
173 Ile Thr Cys Pro Pro Ala Thr Cys Ala Ser Pro Ser Phe Val Glu Gly
174                   355                   360                   365
175 Glu Cys Cys Pro Ser Cys Leu His Ser Val Asp Gly Glu Glu Gly Trp
176      370                   375                   380
177 Ser Pro Trp Ala Glu Trp Thr Gln Cys Ser Val Thr Cys Gly Ser Gly
178 385                   390                   395                   400
179 Thr Gln Gln Arg Gly Arg Ser Cys Asp Val Thr Ser Asn Thr Cys Leu
180                   405                   410                   415
181 Gly Pro Ser Ile Gln Thr Arg Ala Cys Ser Leu Ser Lys Cys Asp Thr
182                   420                   425                   430
183 Arg Ile Arg Gln Asp Gly Gly Trp Ser His Trp Ser Pro Trp Ser Ser
184                   435                   440                   445
185 Cys Ser Val Thr Cys Gly Val Gly Asn Ile Thr Arg Ile Arg Leu Cys
186      450                   455                   460
187 Asn Ser Pro Val Pro Gln Met Gly Gly Lys Asn Cys Lys Gly Ser Gly
188 465                   470                   475                   480
189 Arg Glu Thr Lys Ala Cys Gln Gly Ala Pro Cys Pro Ile Asp Gly Arg
190                   485                   490                   495
191 Trp Ser Pro Trp Ser Pro Trp Ser Ala Cys Thr Val Thr Cys Ala Gly
192                   500                   505                   510
193 Gly Ile Arg Glu Arg Thr Arg Val Cys Asn Ser Pro Glu Pro Gln Tyr
194                   515                   520                   525
195 Gly Gly Lys Ala Cys Val Gly Asp Val Gln Glu Arg Gln Met Cys Asn
196      530                   535                   540
197 Lys Arg Ser Cys Pro Val Asp Gly Cys Leu Ser Asn Pro Cys Phe Pro
198 545                   550                   555                   560
199 Gly Ala Gln Cys Ser Ser Phe Pro Asp Gly Ser Trp Ser Cys Gly Phe
200                   565                   570                   575
201 Cys Pro Val Gly Phe Leu Gly Asn Gly Thr His Cys Glu Asp Leu Asp
202                   580                   585                   590
203 Glu Cys Ala Leu Val Pro Asp Ile Cys Phe Ser Thr Ser Lys Val Pro
204      595                   600                   605
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RAW SEQUENCE LISTING   DATE: 01/15/2002
PATENT APPLICATION: US/10/017,724   TIME: 18:08:11

Input Set : **A:\Seqlist.txt**
Output Set: **N:\CRF3\01152002\J017724.raw**

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205 Arg Cys Val Asn Thr Gln Pro Gly Phe His Cys Leu Pro Cys Pro Pro
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208 625                 630                 635                 640
209 Thr Glu Lys Gln Val Cys Glu Pro Glu Asn Pro Cys Lys Asp Lys Thr
210                 645                 650                 655
211 His Asn Cys His Lys His Ala Glu Cys Ile Tyr Leu Gly His Phe Ser
212                 660                 665                 670
213 Asp Pro Met Tyr Lys Cys Glu Cys Gln Thr Gly Tyr Ala Gly Asp Gly
214         675                 680                 685
215 Leu Ile Cys Gly Glu Asp Ser Asp Leu Asp Gly Trp Pro Asn Leu Asn
216         690                 695                 700
217 Leu Val Cys Ala Thr Asn Ala Thr Tyr His Cys Ile Lys Asp Asn Cys
218 705                 710                 715                 720
219 Pro His Leu Pro Asn Ser Gly Gln Glu Asp Phe Asp Lys Asp Gly Ile
220                 725                 730                 735
221 Gly Asp Ala Cys Asp Asp Asp Asp Asn Asp Gly Val Thr Asp Glu
222         740                 745                 750
223 Lys Asp Asn Cys Gln Leu Leu Phe Asn Pro Arg Gln Ala Asp Tyr Asp
224         755                 760                 765
225 Lys Asp Glu Val Gly Asp Arg Cys Asp Asn Cys Pro Tyr Val His Asn
226         770                 775                 780
227 Pro Ala Gln Ile Asp Thr Asp Asn Asn Gly Glu Gly Asp Ala Cys Ser
228 785                 790                 795                 800
229 Val Asp Ile Asp Gly Asp Asp Val Phe Asn Glu Arg Asp Asn Cys Pro
230                 805                 810                 815
231 Tyr Val Tyr Asn Thr Asp Gln Arg Asp Thr Asp Gly Asp Gly Val Gly
232                 820                 825                 830
233 Asp His Cys Asp Asn Cys Pro Leu Val His Asn Pro Asp Gln Thr Asp
234         835                 840                 845
235 Val Asp Asn Asp Leu Val Gly Asp Gln Cys Asp Asn Asn Glu Asp Ile
236         850                 855                 860
237 Asp Asp Asp Gly His Gln Asn Asn Gln Asp Asn Cys Pro Tyr Ile Ser
238 865                 870                 875                 880
239 Asn Ala Asn Gln Ala Asp His Asp Arg Asp Gly Gln Gly Asp Ala Cys
240                 885                 890                 895
241 Asp Pro Asp Asp Asp Asn Asp Gly Val Pro Asp Asp Arg Asp Asn Cys
242                 900                 905                 910
243 Arg Leu Val Phe Asn Pro Asp Gln Glu Asp Leu Asp Gly Asp Gly Arg
244         915                 920                 925
245 Gly Asp Ile Cys Lys Asp Asp Phe Asp Asn Asp Asn Ile Pro Asp Ile
246         930                 935                 940
247 Asp Asp Val Cys Pro Glu Asn Asn Ala Ile Ser Glu Thr Asp Phe Arg
248 945                 950                 955                 960
249 Asn Phe Gln Met Val Pro Leu Asp Pro Lys Gly Thr Thr Gln Ile Asp
250                 965                 970                 975
251 Pro Asn Trp Val Ile Arg His Gln Gly Lys Glu Leu Val Gln Thr Ala
252                 980                 985                 990
253 Asn Ser Asp Pro Gly Ile Ala Val Gly Phe Asp Glu Phe Gly Ser Val
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VERIFICATION SUMMARY   DATE: 01/15/2002
PATENT APPLICATION: US/10/017,724   TIME: 18:08:12

Input Set :: A:\Seqlist.txt
Output Set: N:\CRF3\01152002\J017724.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:315 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:318 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
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L:478 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:493 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
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L:498 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
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L:503 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
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L:877 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:891 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:892 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:893 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

VERIFICATION SUMMARY   DATE: 01/15/2002
PATENT APPLICATION: **US/10/017,724**   TIME: 18:08:12

Input Set : **A:\Seqlist.txt**
Output Set: **N:\CRF3\01152002\J017724.raw**

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L:960 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:961 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:962 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:969 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
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